

February 11, 1999

Mr. David Bennett
United States Environmental Protection Agency
1200 Sixth Avenue, Mail Stop ECL-115
Seattle, Washington 98101

Re: Contract No. 68-W6-0008
TDD No. 97-09-0013

Dear Mr. Bennett:

Please find the enclosed Owner Notification Tables outlining the analytical results of samples collected during the Site Inspection of the CANOL Pump Station J, located at milepost 1285.5 of the Alaska Highway. These sample were collected on public and private property. The tables include all analytical results and is accompanied with a sample location map.

If you have any questions regarding this deliverable, please call me at (206) 624-9537.

Sincerely,

Linda Foster
START Project Leader

LF/pc

Enclosures

pc: Gary Sink, Project Officer, USEPA, Seattle (Mail Stop ECL-116) (letter only)
David Byers, START Program Manager, E & E, Seattle (letter only)
Paul Cooley, START Project Manager, E & E, Anchorage, AK

Analytical Results

Owner/Representative: Mr. Bob Shulz
Tetlin National Wildlife Refuge
Mile Post 1314
P.O. Box 779
Tok, AK 99780

Sample Date: July 28, 1998

Sample Media/Location: Sediment, Surface Water/(See attached map for location).

Sample Analysis: Volatile Organic Compounds, Inorganics, Residual Range Organics, Diesel Range Organics.

(See enclosed summary data sheets.)

EPA Sample Number	98314027
Sample Location Number	WL07SD
Depth (bgs)	0-0.5
DROs/RROs (mg/kg)	
Diesel Range Organics	330
Residual Range Organics	2000
Inorganics (mg/kg)	
Aluminum	14700 JK
Antimony	2.1 JBL
Arsenic	5.4
Barium	143
Calcium	8020
Chromium	23.4
Cobalt	12.3 JBK
Copper	33.9
Iron	25800 JK
Lead	1.1 JK
Magnesium	6480
Manganese	646
Nickel	19.8
Potassium	506 JBK
Thallium	2.7 JBK
Vanadium	63.8
Zinc	51.4

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- L = Low bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.

EPA Sample Number	98314028
Sample Location Number	WL08SW
VOCs (µg/L)	
2-Propanone	4
Carbon disulfide	24.1
Inorganics (mg/L)	
Barium	25 JBK
Calcium	16100
Iron	1030
Magnesium	5180
Manganese	745
Potassium	500 JBK
Sodium	4540 JBK

Note :

Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- mg/L = Milligrams per liter.
- µg/L = Micrograms per liter.
- VOCs = Volatile organic compounds.

Analytical Results

Owner/Representative: Ms. Ida Joe
c/o Mr. Bob Sattler
Tamana Chiefs Conference, Inc.
112 First Ave. Suite 600
Fairbanks, AK 99701-4897

Sample Date: July 27 -28, 1998

Sample Media/Location: Soil, Sediment, Surface Water/(See attached map for location).

Sample Analysis: Volatile Organic Compounds, Semi-Volatile Organic Compounds,
Inorganics, Residual Range Organics, Diesel Range Organics,
Gasoline Range Organics.

(See enclosed sample data sheets.)

EPA Sample Number	98314000	98314001	98314002	98314003	98314004	98314005
Sample Location Number	PC01SS 0-0.5	PC02SS 2.0-3.0	PC03SS 0-0.5	PC04SS 2.0-3.0	PC05SS 0-0.5	PC06SS 2.0-3.0
VOCs (µg/kg)						
2-Pentanone, 4-methyl-	6.2 U	1440	6.3 U	2 U	2.2 U	2.2 U
2-Propanone	125 U	693 UJK	214 U	62.6	67.7 U	43.7 U
Benzene	6.2 U	21.3	6.3 U	2 U	2.2 U	2.2 U
Benzene, (1-methylethyl)-	6.2 U	179	6.3 UJK	2 U	2.2 U	2.2 U
Benzene, 1,2,4-trimethyl-	6.2 U	5140	6.3 UJK	2 U	2.2 U	2.2 U
Benzene, 1,2-dimethyl-	6.2 U	1340	6.3 U	2 U	2.2 U	2.2 U
Benzene, 1,3,5-trimethyl-	6.2 U	7490	6.3 UJK	2 U	2.2 U	2.2 U
Benzene, 1-methyl-4-(1-methylethyl)-	6.2 U	2700	6.3 UJK	2 U	2.2 U	2.2 U
Benzene, tert-butyl-	6.2 U	7.3 U	6.3 UJK	2 U	2.2 U	2.2 U
Carbon disulfide	6.2 U	7.3 U	6.3 U	4 U	2.2 U	4.3 U
Ethylbenzene	6.2 U	251	6.3 U	2 U	2.2 U	2.2 U
MP-Xylene	12.5 U	904	12.6 U	4 U	4.4 U	4.3 U
Naphthalene	12.5 U	198	12.6 UJK	4 U	4.4 U	4.3 U
Toluene	6.2 U	12.6	7	2 U	31.1	2.2 U
SVOCs (µg/kg)						
Bis(2-ethylhexyl) phthalate	1210	1230 JQ	10300 U	780 U	794 U	799 U
Dibenzofuran	205 U	2930 JH	206 U	156 U	159 U	160 U
2,4-Dimethylphenol	205 U	278 U	206 U	156 U	159 U	160 U
9H-Fluorene	205 U	6870 JH	206 U	156 U	159 U	160 U
4-Methylphenol	205 U	278 U	206 U	156 U	159 U	160 U
Naphthalene, 1-methyl-	205 U	96700	206 U	156 U	159 U	160 U
Naphthalene, 2-methyl-	313	184000	206 U	156 U	159 U	160 U
Naphthalene	204 JQ	33300	206 U	156 U	159 U	160 U
Phenanthrene	205 U	5310	206 U	156 U	159 U	160 U
Phenol, 2-methyl-	205 U	278 U	206 U	156 U	159 U	160 U
Phenol	205 U	278 U	206 U	156 U	159 U	160 U
Pyrene	205 U	329	2060 UJK	156 U	159 U	160 U
Retene	205 U	452	2060 U	156 U	159 U	160 U
GROs (mg/kg)						
Benzene	0.12 U	0.43 U	0.066 U	0.051 U	0.054 U	0.13 U
Toluene	0.59	0.43 U	0.066 U	0.051 U	0.083	0.13 U
Ethylbenzene	0.12 U	1.4	0.066 U	0.051 U	0.054 U	0.13 U
m,p-Xylene	0.17	5.4	0.066 U	0.051 U	0.16	0.13 U
o-Xylene	0.12 U	4	0.066 U	0.051 U	0.054 U	0.13 U
DROs/RROs (mg/kg)						
Diesel Range Organics	6800	21000	5800	76	14	1900
Residual Range Organics	3200	1800	45000	610	92	110
Inorganics (mg/kg)						
Aluminum	5070	7030	8680	11800	5440	4000
Antimony	0.79 UJL	1.3 UJL	1.2 JBK	1.1 UJK	0.63 UJL	0.68 UJL
Arsenic	3.6	3.1 JBK	2.7	3.7 UJK	4.2	1.2 JBK
Barium	115	61.5 JBK	116	64.5	65.6	57.2
Beryllium	0.38 JBK	0.19 U	0.31 JBK	0.27 JBK	0.31 JBK	0.35 JBK
Calcium	4970	9450	9100	6370	2010	1560 B
Chromium	5.7	9.7	11	18.5	3.5	1.6 JBK
Cobalt	3.4 JBK	4.36 JBK	5.6 JBK	8.3	2.2 JBK	1.5 JBK
Copper	23.4	20.6	18.9	22.4	11.7	3.4 JBK
Iron	15600	9580	16200	19000	8920	8850
Lead	326	13.2	244	4.3	27.8	12
Magnesium	3250	2670	3920	6840	1370	1330
Manganese	261	282	397	325	329	323
Mercury	0.06 U	0.1 U	0.07 U	0.05 U	0.05 U	0.05 U
Nickel	6.2 JBK	10.2 JBK	10.9	20.3	5.8 JBK	1.3 JBK
Potassium	1840	543 JBK	1120 JBK	658 JBK	1870	1780
Selenium	0.9 U	1.4 U	0.94 U	0.6 U	0.68 U	0.69 U
Vanadium	15.5	29.2	33.5	48.3	12.8	6.5 JBK
Zinc	170	24.5	38.2	35.4	173	26.1

Key at the end of the table.

EPA Sample Number	98314006	98314007	98314008	98314009	98314010	98314011
Sample Location Number	PC07SS 0-0.5	PC08SS 2.0-3.0	PC09SS 0-0.5	PC01OSS 2.0-3.0	PC11SS 0-0.5	PC12SS 0-0.5
VOCs ($\mu\text{g/kg}$)						
2-Pentanone, 4-methyl-	5.2 U	92.2 U	2 U	2.9 U	2.7 U	2.1 U
2-Propanone	105 U	1840 U	40 U	100	54.6 U	46.2
Benzene	5.2 U	92.2 U	2 U	2.9 U	2.7 U	2.1 U
Benzene, (1-methylethyl)-	5.2 U	92.2 U	2 U	2.9 U	2.7 U	2.1 U
Benzene, 1,2,4-trimethyl-	5.2 U	92.2 U	2 U	2.9 U	2.7 U	2.1 U
Benzene, 1,2-dimethyl-	5.2 U	664	2 U	2.9 U	2.7 U	2.1 U
Benzene, 1,3,5-trimethyl-	5.2 U	9350	38.2	2.9 U	2.7 U	2.1 U
Benzene, 1-methyl-4-(1-methylethyl)-	5.2 U	221	2 U	2.9 U	2.7 U	2.1 U
Benzene, tert-butyl-	5.2 U	534	2 U	2.9 U	2.7 U	2.1 U
Carbon disulfide	5.2 U	111	3.9 U	5.8 U	5.4 U	4.1 U
Ethylbenzene	5.2 U	92.2 U	2 U	2.9 U	2.7 U	2.1 U
m,p-Xylene	10.5 U	184 U	3.9 U	5.8 U	5.4 U	4.1 U
Naphthalene	10.5 U	184 U	3.9 U	5.8 U	5.4 U	4.1 U
Toluene	99.5	130	2.3	2.9 U	2.7 U	2.1 U
SVOCs ($\mu\text{g/kg}$)						
Bis(2-ethylhexyl) phthalate	804 U	11900 U	796 U	1000 U	1160 U	851 U
Dibenzofuran	161 U	2380 U	159 U	201 U	232 U	170 U
2,4-Dimethylphenol	161 U	2380 U	159 U	201 U	9270	170 U
9H-Fluorene	161 U	9020	159 U	201 U	232 U	170 U
4-Methylphenol	161 U	2380 U	159 U	201 U	3870	170 U
Naphthalene, 1-methyl-	161 U	33200	159 U	201 U	232 U	170 U
Naphthalene, 2-methyl-	161 U	2380 U	159 U	201 U	232 U	170 U
Naphthalene	161 U	2380 U	159 U	201 U	232 U	170 U
Phanthrene	161 U	2380 U	159 U	201 U	232 U	170 U
Phenol, 2-methyl-	161 U	2380 U	159 U	201 U	988	170 U
Phenol	161 U	2380 U	159 U	201 U	597	170 U
Pyrene	161 U	915 JQ	159 U	201 U	232 U	170 U
Retene	161 U	3120	159 U	201 U	275	170 U
GROs (mg/kg)						
Benzene	0.063 U	0.18	0.18	0.066 U	0.075 U	0.04 U
Toluene	0.063 U	0.064 U	0.064 U	0.066 U	0.075 U	0.04 U
Ethylbenzene	0.063 U	0.11	0.11	0.066 U	0.075 U	0.04 U
m,p-Xylene	0.063 U	2.5	2.5	0.066 U	0.075 U	0.04 U
o-Xylene	0.063 U	1.1	1.1	0.066 U	0.075 U	0.04 U
DROs/RROs (mg/kg)						
Diesel Range Organics	2500	67000	270	2000	2100	19
Residual Range Organics	8500	15000	190	180	11000	110
Inorganics (mg/kg)						
Aluminum	5490	5450	4330	15400	8910	10700
Antimony	0.67 UJL	1 UJL	66 JBK	1.6 JBK	4.1 JBK	1.3 UJK
Arsenic	2	1.7 U	2.1	5.6	3.6	4.5
Barium	75.6	90.8	56.5	141	92.8	77.3
Beryllium	0.44 JBK	0.21 U	0.25 JBK	0.33 JBK	0.31 U	0.23 U
Calcium	1650	9540	1620	6830	5130	9930
Chromium	2.3	6	1.9	19.8	76.2	18.4
Cobalt	1.9 JBK	3.2 JBK	1.8 JBK	11.4	10.7 JBK	7.5 JBK
Copper	13.6	15.4	4.1	37.8	81.1	24.8
Iron	12000	9600	8210	15800	97400	18800
Lead	16.4	6.8	13.2	4.4	188	38.6
Magnesium	1880	2250	1340	3310	4180	6440
Manganese	391	451	266	591	662	355
Mercury	0.05 U	0.08 U	0.14	0.06 U	0.09 JBK	0.12
Nickel	2.5 JBK	5.7 JBK	6.6	24	35.5	19.4
Potassium	2410	829 JBK	1940	897 JBK	1120 JBK	911
Selenium	0.77 U	1.1 JBK	0.65 U	0.71 U	0.88 U	0.68 U
Vanadium	10	17.6	8.7	62.1	30.5	40.7
Zinc	62.8	25.8	29.6	31.4	208	53.4

Key at the end of the table.

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- GRO = Gasoline range organics.
- H = High bias.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- L = Low bias.
- mg/kg = Milligrams per kilogram.
- Q = The result is estimated because the concentration is below the contract-required quantitation limit.
- RRO = Residual range organics.
- SVOCs = Semivolatile organic compounds.
- U = The analyte was analyzed for, but was not detected at the reported sample quantitation limit.
- µg/kg = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

EPA Sample Number	98314016	98314017	98314018	98314019
Sample Location Number	AP01SS	AP02SS	AP03SS	AP04SS
Depth (bgs)	0-0.5	2.0-3.0	0-0.5	2.0-3.0
GROs (mg/kg)				
Toluene	0.049 U	0.48	0.47	0.049 U
m,p-Xylene	0.049 U	0.089	0.076	0.049 U
o-Xylene	0.049 U	0.064 U	0.046	0.09
DROs/RROs (mg/kg)				
Diesel Range Organics	11 U	10 U	360	270
Residual Range Organics	21 U	21 U	27	63

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- GRO = Gasoline range organics.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.
- U = The analyte was analyzed for, but was not detected at the reported sample quantitation limit.

EPA Sample Number	98314021
Sample Location Number	WL01SD
Depth (bgs)	0-0.5
VOCs (µg/kg)	
Benzene, 1,3,5-trimethyl-	7860 JL
n-Butylbenzene	4300 JL
SVOCs (µg/kg)	
Bis(2-ethylhexyl) phthalate	984000
Dibenzofuran	4650
Naphthalene, 1-methyl-	75100
Naphthalene, 2-methyl-	44600
Naphthalene	8680
Phenanthrene	4900
Retene	599
DROs/RROs (mg/kg)	
Diesel Range Organics	30000
Residual Range Organics	1400
Inorganics (mg/kg)	
Aluminum	4870 JK
Barium	92.9 JBK
Calcium	16800
Chromium	7.3
Cobalt	4.3 JBK
Copper	19.5
Iron	7890 JK
Lead	6.5 JK
Magnesium	1700 JBK
Manganese	749
Nickel	6.3 JBK
Vanadium	19.8 JBK
Zinc	15.9

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

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- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- L = Low bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.
- SVOCs = Semivolatile organic compounds.
- µg/kg = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

EPA Sample Number	98314022
Sample Location Number	WL02SW
VOCs (µg/kg)	
Carbon disulfide	81.2
SVOCs (µg/kg)	
Butylbenzylphthalate	0.63
DROs (mg/kg)	
Diesel Range Organics	0.87
Inorganics (mg/kg)	
Barium	29 JBK
Calcium	11400
Iron	728
Lead	3.1 JBK
Magnesium	3080 JBK
Manganese	113
Potassium	854 JBK
Sodium	1940 JBK
Zinc	29.3

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- mg/kg = Milligrams per kilogram.
- SVOCs = Semivolatile organic compounds.
- µg/kg = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

EPA Sample Number	98314023
Sample Location Number	WL03SD
Depth (bgs)	0-0.5
VOCs (µg/kg)	
2-Butanone	93.9 JL
2-Propanone	254
Toluene	11.9
SVOCs (µg/kg)	
Retene	376
DROs/RROs (mg/kg)	
Diesel Range Organics	45
Residual Range Organics	270
Inorganics (mg/kg)	
Aluminum	9970
Antimony	0.94 JBL
Arsenic	4
Barium	137
Calcium	3450
Chromium	12
Copper	20.3
Iron	16200
Lead	11.8
Magnesium	3010
Manganese	390
Nickel	9.9
Potassium	1880 JK
Vanadium	35.8
Zinc	32.1

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- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- L = Low bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.
- SVOCs = Semivolatile organic compounds.
- µg/kg = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

EPA Sample	
Number	98314024
Sample Location	
Number	WL04SW
Inorganics (mg/L)	
Calcium	12000
Iron	1520
Magnesium	3880 JB
Manganese	329
Sodium	4110 JB
Zinc	6.4 JB

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Key:

B = Sample detected below contract required detection limit,
but greater than or equal to the instrument detection limit.

EPA = U.S. Environmental Protection Agency.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

mg/L = Milligrams per liter.

EPA Sample Number	98314029	98314030
Sample Location Number	BG01SS	BG02SS
Depth (bgs)	0-0.5	2
GROs/BTEX (mg/kg)		
Toluene	0.42	0.053 U
m,p-Xylene	0.097	0.053 U
RROs (mg/kg)		
Residual Range Organics	44	21 U

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

bgs = Below ground surface.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes.

EPA = U.S. Environmental Protection Agency.

GRO = Gasoline range organics.

mg/kg = Milligrams per kilogram.

RRO = Residual range organics.

U = The analyte was analyzed for, but was not detected at the reported sample quantitation limit.

EPA Sample Number	98314031
Sample Location Number	BG03SD
Depth (bgs)	0-0.5
GROs/BTEX (mg/kg)	
Toluene	0.27
m,p-Xylene	0.35
DROs/RROs (mg/kg)	
Diesel Range Organics	150
Residual Range Organics	800
Inorganics (mg/kg)	
Aluminum	11000
Arsenic	8.8
Barium	130
Calcium	6560
Chromium	18
Copper	23.4
Iron	21000
Lead	2.5 JK
Magnesium	3140
Manganese	281
Nickel	11.9 JBK
Potassium	375 JBK
Vanadium	76
Zinc	27.7

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- bgs = Below ground surface.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- GRO = Gasoline range organics.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.

EPA Sample Number	98314032
Sample Location Number	BG04SW
VOCs (µg/L)	
Carbon disulfide	23.8
Inorganics (mg/L)	
Calcium	10200
Iron	995
Magnesium	2800 JB
Manganese	292
Sodium	2820 JB

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

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- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- mg/L = Milligrams per liter.
- µg/L = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

Analytical Results

Owner/Representative: Mrs. Lucy David
c/o Mr. Bob Sattler
Tamana Chiefs Conference, Inc.
112 First Ave., Suite 600
Fairbanks, AK 99701-4897

Sample Date: July 27-28, 1998

Sample Media/Location: Soil, Sediment/(See attached map for location).

Sample Analysis: Volatile Organic Compounds, Semi-Volatile Organic Compounds,
Inorganics, Residual Range Organics, Diesel Range Organics,
Gasoline Range Organics.

(See enclosed sample data sheets.)

EPA Sample Number	98314012	98314013	98314014	98314015
Sample Location Number	DS01SS	DS02SS	DS03SS	DS04SS
Depth (bgs)	0-0.5	2	0-0.5	2.0-3.0
VOCs (µg/kg)				
Benzene, (1-methylethyl)-	88	5.6 U	53.5	3 U
Benzene, 1-methyl-4-(1-methylethyl)-	105	5.6 U	4.6 U	3 U
Methane, trichloro-	4 U	6.9	7.9	3.6
Toluene	2.4	5.6 U	88.8	3 U
SVOCs (µg/kg)				
Di-n-Butylphthalate	166 U	245	300 U	169 U
DRO/RROs (mg/kg)				
Diesel Range Organics	26	12 U	53	12 U
Residual Range Organics	180	24 U	390	24 U
Inorganics (mg/kg)				
Aluminum	12500	13200	7410	11100
Antimony	1.5 JBK	1.5 JBK	1.1 UJL	1.4 JBK
Arsenic	4.6	4.4	1.8 UJL	4
Barium	102	76.1	123	68.9
Beryllium	0.3 JBK	0.24 U	0.18 U	0.25 U
Calcium	6490	8430	6740	5380
Chromium	16.6	19.9	9.4	17.5
Cobalt	9.4 JBK	11.1 JBK	4.5 JBK	7.6 JBK
Copper	32.5	33.6	18.9	24
Iron	16300	16800	7570	17500
Lead	2.9	0.77	5.7	0.97
Magnesium	5680	7380	3050	9800
Manganese	402	352	308	323
Nickel	20.8	24.2	8.9 JBK	19.9
Potassium	653 JBK	610 JBK	363 JBK	582 JBK
Vanadium	44.7	50.7	20.5	43.3
Zinc	31.9	31.7	49.2	32.2

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.
- SVOCs = Semivolatile organic compounds.
- U = The analyte was analyzed for, but was not detected at the reported sample quantitation limit.
- µg/kg = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

EPA Sample Number	98314025
Sample Location Number	WL05SD
Depth (bgs)	0-0.5
VOCs ($\mu\text{g}/\text{kg}$)	
2-Butanone	29.7 JL
GROs (mg/kg)	
Toluene	0.18
m,p-Xylene	0.095
DROs/RROs (mg/kg)	
Diesel Range Organics	44
Residual Range Organics	180
Inorganics (mg/kg)	
Aluminum	11100
Antimony	1.4 JBL
Arsenic	3.3
Barium	104
Calcium	5260
Chromium	16.2
Cobalt	7.7 JBK
Copper	32.2
Iron	20500
Lead	1.2
Magnesium	5270
Manganese	261
Nickel	17.1
Potassium	778 JBK
Vanadium	48
Zinc	25.4

Note : Bold type indicates concentrations above sample quantitation limit or detection limit.

Key:

- B = Sample detected below contract required detection limit, but greater than or equal to the instrument detection limit.
- bgs = Below ground surface.
- DRO = Diesel range organics.
- EPA = U.S. Environmental Protection Agency.
- GRO = Gasoline range organics.
- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K = Unknown bias.
- L = Low bias.
- mg/kg = Milligrams per kilogram.
- RRO = Residual range organics.
- $\mu\text{g}/\text{kg}$ = Micrograms per kilogram.
- VOCs = Volatile organic compounds.

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